The Open University

Science
S382 Astrophysics

S382

Project Portfolio EC1

Covering *Astrophysical Data Analysis*

The first Examinable Component (EC1) of S382 accounts for one-third of the module score and is a Portfolio comprising two parts. Part 1 is the group wiki reporting your project work and this must be completed by **12:00 midnight (UK local time)** on **Thursday 27 June 2013** (i.e. you will no longer be able to edit your wiki on Friday 28 June). Part 2 comprises your weekly progress reports and these must be submitted using the eTMA system by **12:00 midday (UK local time)** on **Thursday 4 July 2013**.

It is **not** possible to request an extension for either the group wiki or your progress reports submission.

Do not submit any part of this examinable component to your tutor.

Detailed instructions on submitting examinable work are given in the booklet *Information for Students Submitting Examinable Work Electronically*. You will be sent an email with a link to this booklet approximately 4–6 weeks prior to the cut-off date. Note, however, that S382 EC1 submissions differ in some respects from the advice given in this booklet (e.g. maximum file size and file formats – see the **Part 2** text below).

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4.1 PT/TeX

S382 EC1: Project Portfolio covering *Astrophysical Data Analysis*

This Project Portfolio will assess your ability to achieve the following S382 Learning Outcomes:

Kn6 Knowledge and understanding of the principles underlying the astronomical techniques used in the observational work that you carry out.
Kn7 Knowledge and understanding of the scientific background to the observational work that you carry out.
C5 Critically evaluate arguments and data and formulate judgements in accordance with astrophysical and cosmological theories and concepts.
Ky1 Organize and clearly present relevant information in response to defined tasks, including the expression of mathematical and scientific concepts using clear, concise and correct scientific prose.
Ky2 Learn from a variety of sources and media including material on the WWW and journal articles which are not specifically written for an undergraduate audience.
Ky3 Evaluate and synthesize information from a variety of sources and media.
Ky4 Work in small groups to collaboratively plan observations and analyze astronomical data.
P1 Search for and download relevant information from the World Wide Web.
P2 Use computer software to analyse data, model physical processes and present the results appropriately.
P3 Demonstrate the skills necessary for self-managed and lifelong learning in terms of working independently, time management and organizational skills.

Part 1 (50% of the marks) Your group should ensure that your report on the *Astrophysical Data Analysis* project is complete by the cut-off time. The report must be presented on your group wiki as indicated on the S382 website. Note that the group wiki will close for editing at **12:00 midnight (UK local time)** on **27 June 2013**. If any part of the wiki is being edited at this time, then any changes which are not saved may be lost. We recommend that you finish editing the wiki before this time as last-minute editing may lead to unintended changes (such as accidentally deleting something).

Although all students in a given project group will be eligible for the *same score* for Part 1, those who do not make the expected contribution to the group work will have their individual score for Part 1 reduced.

Part 1 will be assessed against learning outcomes: Kn6, Kn7, C5, Ky1, Ky3, Ky4, P1 and P2.

Part 2 (50% of the marks) Submit the weekly progress reports that you have completed each week during your study of the *Astrophysical Data Analysis* project. If you wish to make any final modifications to the original versions of your progress reports before submitting them, then please do so. To have a possibility of obtaining the highest grade, you should collate all your reports into **a single file for submission, which must not exceed 20 A4 pages in total**, using a minimum font size of 11pt. Marks will be deducted if you exceed this page limit. You should submit a **minimum of seven** weeks' progress reports and your compilation must include the progress reports from Weeks 1 and 2.

The progress reports should be uploaded to the TMA30 slot on the eTMA system. The file size limit for the progress report submission is 20MB. However, please do try to make your submissions as small as possible to avoid lengthy upload/download times.

Advice regarding the production of S382 assignments for electronic submission can be found in the document *Producing eTMAs for level 3 physics and astronomy modules* available from the Resources/Assessment area of the S382 website.

Part 2 will be assessed against learning outcomes: Kn7, Ky1, Ky2, Ky4, P2 and P3.

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